



A-1 Bio-Retention Soil Mix #8A w/ Compost (Soil Medium for Bio-Swales & Bio-Retention Basins) **Product Code 804CT**



PRODUCT DESCRIPTION:

A-1 Bioretention Soil Mix #8A w/ Compost is a blend of 60% washed coarse sand and 25% sandy loam topsoil. Added to this blend is 15% by volume of our A-1 Lifelike 3/8" Compost. The blended material is low in silt and clay which allows the material to perform at the required minimum drainage properties of > 5" per hour KSat Perc Rate Tested @ 75% compaction. This satisfies civil engineering requirements while maintaining the agronomical properties of a well graded sand with silt to satisfy the landscape architect's desire to support growth of plant material. Clay content is limited to provide a minimum cation exchange capacity for healthy plant material if desired.

Compaction % of Bio Soil on job site is determined by the engineer



The uniform sand sizes of **A-1 Bioretention Soil Mix #8A w/ Compost** results in long lasting pore space and moisture capacity for a reasonably priced, readily available, consistent source of an appropriate soil medium to comply with State Water Quality requirements.

(Organic matter incorporated into the A-1 Bioretention Soil Mix #8A helps support vegetation but will affect the Ksat Perc Rate. It is recommended that organic matter be incorporated into the soil medium's top six inches after installation to relieve compaction or in the planting hole for trees or shrubs to concentrate the amendment where it will benefit the plants and restrict water movement.)

PRODUCT USES:

A-1 Bioretention Soil Mix #8A w/ Compost is a soil medium for Bio-Retention Basins and Swales which helps remove contaminants from storm water runoff as required by the State of California Regional Water Quality Control Board and other government agencies charged with enforcement of these requirements. The ultimate goal is to help prevent contamination of the downstream beneficial water sources of the State.

(*NOTE: All materials should be sampled, submitted, and approved prior to shipment or installation as job plans and specifications **VARY GREATLY!** It is the customer's responsibility to assure the soil is approved **BEFORE** Installation! Compaction ratios differ between architects. Our bio soil test data reflects 75% compaction as tested in the lab) *Ask your sales rep for our most recent test results*

INSTALLATION:

A-1 Bioretention Soil Mix #8A w/Compost should be installed per construction plans or engineers specifications.

CONVERSION:

1.2 CY/TON
85.1 lbs per Cu ft
2298 lbs per CY/2758 lbs per TON

Specification data subject to change. Additional data available upon request.

Limitation of Warranties: Seller makes no warranty of any kind, express or implied, regarding the materials; and all warranties, including any implied warranty of merchantability and any implied warranty of fitness for a particular purpose, are hereby excluded.



A-1 Bio-Retention Soil Mix #8A w/ Compost (Soil Medium for Bio-Swales and Bio-Retention Basins) **Product Code 804C**

A-1 Bioswale Soil Mix #8A w/ Compost is a locally available mix that is a reasonably priced solution for architects and engineers designing project to achieve LEED credits and certification as well as compliance with local and state storm drain requirements.

- ◆ Sustainable Sites Credit 5.1 Site Development - Protect / Restore Habitat
- ◆ Sustainable Sites Credit 6.1 Storm Water Design - Quality Control
- ◆ Sustainable Sites Credit 6.2 Storm Water Design - Quality Control
- ◆ Water Efficiency Prerequisite Water Use Reduction - 20% Reduction
- ◆ Water Efficiency Credit 1 - Water Efficiency Landscaping
- ◆ Material and Resources Credit 5 - Regional Materials
- ◆ Innovation in Design - Protect & Restore Habitat

PRODUCT ANALYSIS: A-1 Bioretention Soil Mix #8A w/ Compost- Product can be amended per specification

Passing

3/8"	100%
#4	90%-100%
#8	40%-60%
#200	<15%

USDA Soil Classification **Very Gravelly Sand**

PH Range **6.5 - 8.0**

ECe (Salinity) **< 5.0**

KSat (Perc Rate)..... **>5.0 inches/hr @ 75% Compaction (Compaction affects permeability)**

Sand **80%-90%**

Topsoil **20% added topsoil (sand component in topsoil shows up in final mix evaluation)**

Compost **20% Added by volume to A-1 Bioretention Soil Mix #8 w/ Compost**

Silt & Clay **5% - 15% (from added topsoil & Compost)**

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